

Kentie brass diaphragm valve

Kentie



The Kentie diaphragm valve consists of a brass housing and cover, diaphragm and solenoid. The outlet side of the valve is on the side of the housing and has a female screw thread. The capacity opening is located in the middle on the underside of the housing and has the same female screw thread. The maximum working pressure is 10 bar. These angled diaphragm valves are available in the sizes 1", 1¼" and 1½".

The diaphragm of synthetic rubber is clamped between the housing and the cover by means of 5 stainless steel bolts. A stainless steel spring is located above the diaphragm. The 8 watt AC solenoid requires 24 VA for opening and 16 VA to remain open. The DC solenoid is a 9 watt solenoid. The diaphragm valve can also be opened and closed by hand.

The valve opens more or less directly as soon as power supply is switched on. The closing of the valve is influenced by the capacity. Up to approx. 12 m³/h, the solenoid valve closes approx. 1 second after the power has been switched off. With larger capacities it takes approx. 2.5 seconds. Practically no water hammer occurs in the pipe network here.

APPLICATION

A Kentie diaphragm valve can be ideally used in installations where clean water has to be metered

CHARACTERISTICS

- ✓ Brass diaphragm valve, normally closed (NC)
- ✓ Suitable for use with 'clean' water
- ✓ Angled connections



Outlet

Inlet

TECHNICAL DATA

Capacity	: up to approx. 25 m ³ /h - see chart
Solenoid	: 24 VAC or 24 VDC
Power	: 24 VA for opening, 16 VA to remain open
Connection	: female thread, 1" / 1¼" / 1½"
Maximal pressure	: 7 bar

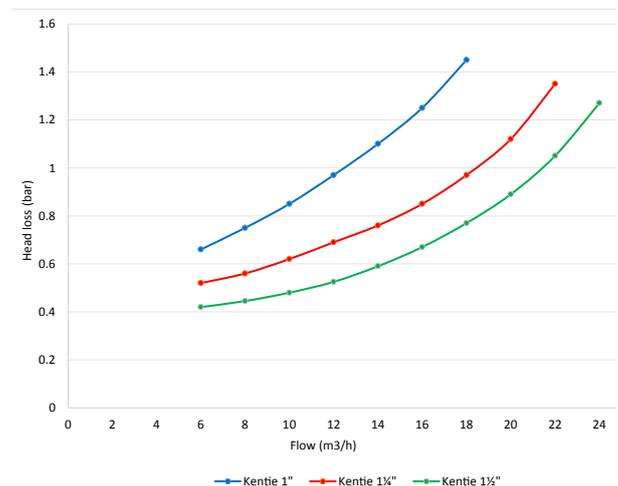
Solenoids

Model	No.	Type
IT* < 2007	147	24 VAC solenoid incl. block, without manual actuation
	148	24 VDC solenoid incl. block, without manual actuation
NS** > 2007	150	24 VAC solenoid naked
	151	24 VDC solenoid naked
	152	24 VAC solenoid complete
	153	24 VDC solenoid complete
	162	24 VAC solenoid incl. block, with manual actuation
	163	24 VDC solenoid incl. block, with manual actuation

* IT solenoid (< 2007) is a replacement solenoid model, valves before 2007 are recognisable by the presence of the brass manual operating pin (No. 165).

** NS solenoid (> 2007) is recognisable by the red manual operating knob near the solenoid (without No. 165).

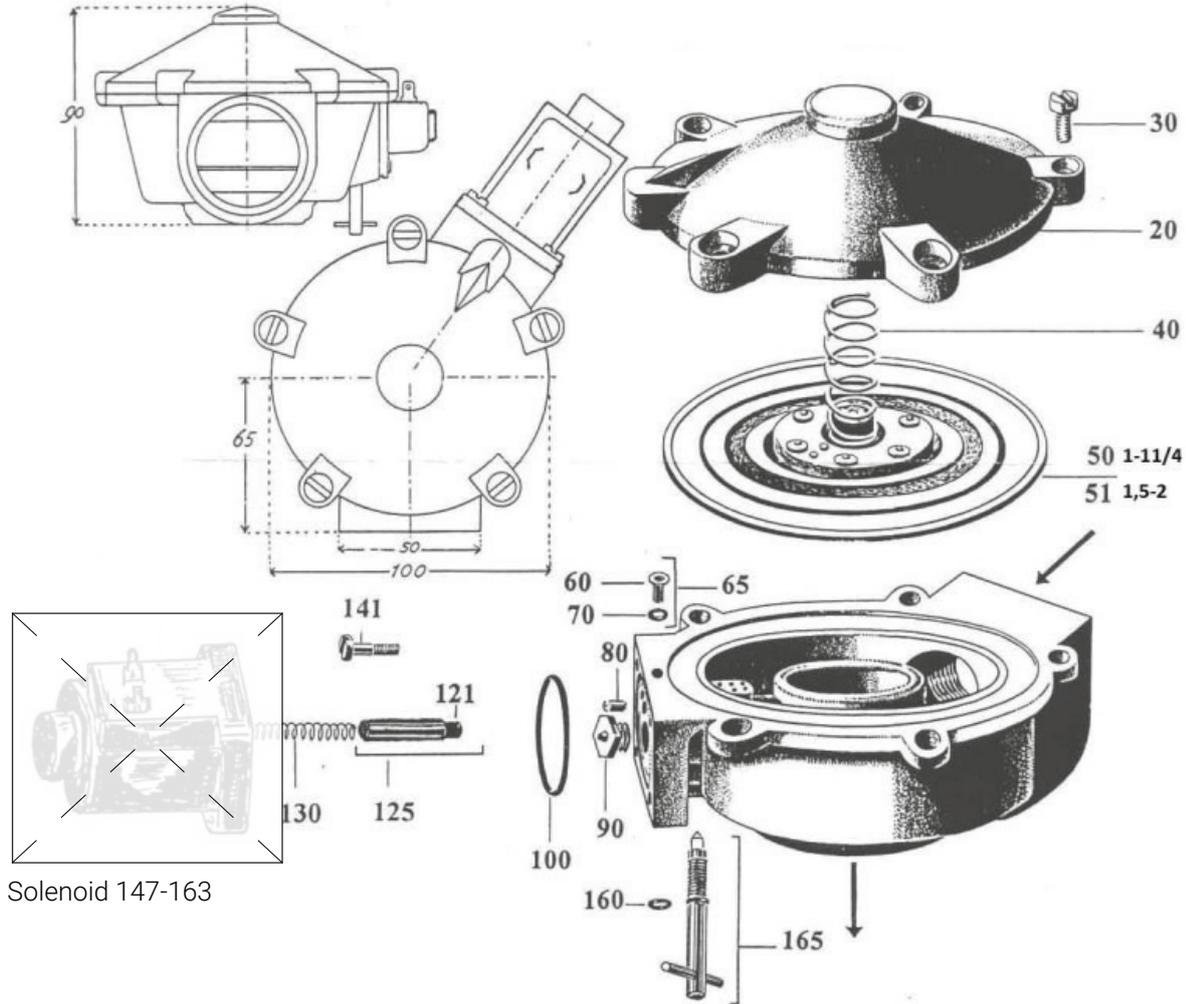
Pressure loss



INSTALLATION & MAINTENANCE

- ✓ During installation, the solenoid must be installed facing upwards. Air between the diaphragm and the cover can then be discharged automatically.
- ✓ For models with manual operating pin (No. 165), only complete replacement solenoids (IT) can be used.

Parts list (old solenoid type - IT, with manual actuation)



Solenoid 147-163

Dwg. No.	Article No.	Article description
20	02245-600560	Cover
30	02245-600565	Bolt M6 X 12 St.St.
40	02245-600570	Diaphragm spring
50	02245-600580	Diaphragm 1"-1¼"
51	02245-600585	Diaphragm 1½"-2"
60	02245-600595	Roll pin
65	02245-600596	Roll ping and O-ring
70	02245-600600	O-ring
80	02245-600605	Metering pipe
90	02245-600610	Seat

Dwg. No.	Article No.	Article description
90	02245-600610	Seat
121	02245-600627	Rubber cap
125	02245-600625	IT plunger
130	02245-600630	Plunger spring
141	02245-600635	Bolt M4 X 12
	02245-600637	Bolt M4 X 16
147-163		See overview of solenoids
160	02245-600650	O-ring
165	02245-600655	Manual actuator (< 2007)